AMENDMENTS TO THE CLAIMS

Claims 1-38 (canceled)

- 39. (Currently Amended) A telephone for transmitting a first transmission an uplink signal to a base station and receiving a second transmission first downlink signal and a second downlink signal from the base station, comprising:
- a modulator operable to modulate a first data stream according to an m-level QAM a QPSK to produce a modulated signal;
- a transmitter operable to transmit the modulated signal as the first transmission uplink signal;
- a receiver operable to receive the second transmission first downlink signal and the second downlink signal, wherein the second transmission first downlink signal has information of a second first data stream and the second downlink signal has information of a second a third data stream, the second data stream first downlink signal is modulated according to an m-level QAM a QPSK and the second downlink signal is scrambled and, the third data stream is modulated according to an n-level QAM or an n-level PSK, and wherein the second first data stream has includes information representing the value of n; and
- <u>- a descrambler operable to descramble the second downlink signal to produce a descrambled second downlink signal;</u>
- a demodulator operable to demodulate the second transmission first downlink signal to produce the second a demodulated first data stream and demodulate the descrambled second downlink signal to produce a demodulated second the third data stream, wherein the third demodulated second data stream is produced according to the information value of n; obtained from the second data stream
- <u>- a first error correction code (ECC) decoder operable to ECC decode the demodulated first</u>

 <u>data stream to produce the first data stream;</u> and
- <u>- a second error correction code (ECC) decoder operable to ECC decode the demodulated</u> second data stream to produce the second data stream;

wherein a coding scheme of the first ECC decoder is different from a coding scheme of the second ECC decoder, and wherein a second error correction code rate is changeable.

- 40. (Canceled).
- 41. (Previously Presented) A telephone according to claim 39, wherein n is an integer and equal to or greater than 4.
- 42-47. (Canceled).
- 48. (Currently Amended) A telephone for transmitting a first transmission an uplink signal to a base station and receiving a second transmission first downlink signal and a second downlink signal from the base station, comprising:
- a modulator operable to modulate a first data stream according to an m-level QAM a QPSK to produce a first modulated signal;
- a multiplexer operable to convert the first modulated signal to a CDMA converted signal according to CDMA;
- a transmitter operable to transmit the CDMA converted signal as the first transmission uplink signal;
- a receiver operable to receive the second transmission first downlink signal and the second downlink signal, wherein the second transmission first downlink signal has information of a second first data stream and the second downlink signal has information of a second a third data stream, the second data stream first downlink signal is modulated according to an m-level QAM, a QPSK and the third data stream second downlink signal is scrambled and modulated according to an n-level QAM or an n-level PSK, wherein and the second first data stream has includes information representing the value of n;

- a de-multiplexer operable to convert the second transmission first downlink signal to a second modulated de-multiplexed first downlink signal and convert the second downlink signal to a de-multiplexed second downlink signal, according to CDMA; and
- <u>- a descrambler operable to descramble the de-multiplexed second downlink signal to produce a descrambled second downlink signal;</u>
- a demodulator operable to demodulate the second modulated de-multiplexed first downlink signal to produce the second a demodulated first data stream and demodulated the descrambled second downlink signal to produce a demodulated second the third data stream, wherein the third demodulated second data stream is produced according to the information value of n; obtained from the second data stream
- a first error correction code (ECC) decoder operable to ECC decode the demodulated first data stream to produce the first data stream; and
- <u>- a second error correction code (ECC) decoder operable to ECC decode the demodulated</u> second data stream to produce the second data stream;

wherein a coding scheme of the first ECC decoder is different from a coding scheme of the second ECC decoder, and wherein a second error correction code rate is changeable.

- 49. (Canceled).
- 50. (Previously Presented) A telephone according to claim 48, wherein n is an integer and equal to or greater than 4.
- 51-74. (Canceled).
- 75. (Currently Amended) A transmission and receiving method for transmitting a first transmission an uplink signal to a base station and receiving a second transmission first downlink signal and a second downlink signal from the base station, comprising:

when the uplink signal is transmitted from a telephone to the base station:

- modulating a first data stream according to an m-level QAM a QPSK to produce a modulated signal; and
- transmitting the modulated signal as the first transmission uplink signal; and when the first and second downlink signals are transmitted from the base station to the telephone:
 - receiving the second transmission first downlink signal and the second downlink signal, wherein the second transmission first downlink signal has information of a second first data stream and the second downlink signal has information of a second a third data stream, the second data stream first downlink signal is modulated according to an m-level QAM, the third data stream is a QPSK and the second downlink signal is scrambled and modulated according to an n-level QAM or an n-level PSK, and wherein the second first data stream has includes information representing the value of n; and
 - descrambling the second downlink signal to produce a descrambled second downlink signal; and
 - demodulating the second transmission first downlink signal to produce the second a demodulated first data stream and the third demodulating the descrambled second downlink signal to produce a demodulated second data stream, wherein the third demodulated second data stream is produced according to the information value of n obtained from the second data stream.
- 76. (Canceled).
- 77. (Previously Presented) A transmission and receiving method according to claim 75, wherein n is an integer and equal to or greater than 4.
- 78-83. (Canceled).

84. (Currently Amended) A transmission and receiving method for transmitting a first transmission an uplink signal to a base station and receiving a second transmission first downlink signal and a second downlink signal from the base station, comprising:

when the uplink signal is transmitted from a telephone to the base station:

- modulating a first data stream according to an m-level QAM a QPSK to produce a first modulated signal;
- <u>multiplexing converting</u> the <u>first modulated signal to <u>produce a CDMA</u> converted signal according to CDMA; <u>and</u></u>
- transmitting the CDMA converted signal as the first transmission uplink signal; and when the first and second downlink signals are transmitted from the base station to the telephone:
 - receiving the second transmission first downlink signal and the second downlink signal, wherein the second transmission first downlink signal has information of a second first data stream and the second downlink signal has information of a second a third data stream, the second data stream first downlink signal is modulated according to an m-level QAM, the third data stream is a QPSK and the second downlink signal is scrambled and modulated according to an n-level QAM or an n-level PSK, and wherein the second first data stream has includes information representing the value of n;
 - <u>de-multiplexing the first downlink converting the second transmission</u> signal to <u>produce a second modulated de-multiplexed first downlink and de-multiplexing the second downlink signal to produce a de-multiplexed second downlink signal, according to CDMA; and</u>
 - descrambling the de-multiplexed second downlink signal to produce a descrambled second downlink signal;
 - demodulating the second modulated de-multiplexed first downlink signal to produce the second a demodulated first data stream and demodulating the descrambled second downlink signal to produce a demodulated second the third data

stream, wherein the third demodulated second data stream is produced according to the information value of n; obtained from the second data stream

- performing first error correction code (ECC) decoding of the demodulated first data stream to produce the first data stream; and
- performing second error correction code (ECC) decoding of the demodulated second data stream to produce the second data stream;

wherein a coding scheme of the first ECC decoding is different from a coding scheme of the second ECC decoding, and wherein a second error correction code rate is changeable.

- 85. (Canceled).
- 86. (Previously Presented) A transmission and receiving method according to claim 84, wherein n is an integer and equal to or greater than 4.

87-110. (Canceled).